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(54) **LIQUID BEARING TYPE DISK DRIVING DEVICE**

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(57) Abstract:

PURPOSE: To drive a disk without any spindle vibration by forming a hub which is worked integrally with a sleeve and rotates in one body at the outer periphery of a fixed spindle supported on a base by a cantilever method and then incorporating a cylindrical motor between the hub and sleeve.

CONSTITUTION: The fixed spindle 11 is fitted at one end to the base 14 and the sleeve 12A is provided rotatably on the fixed spindle 11. The hub 12 rotates integrally with the sleeve 12A and a motor stator 16 is provided in the space formed between the sleeve 12A and motor 15. A cylindrical motor 15 is fixed integrally with the hub 12 and has a thrust attractive force in the direction of the base 14. The stator 16 is fixed to the base 14 and herringbone grooves 11A and 11B are formed at either of the outer periphery of the fixed spindle 11 and the inner periphery of the hub 12, and the disk 12 is fixed to the outer periphery of the hub 12. Thus, the disk is driven without any spindle vibration.

